

# PowerScan™ Industrial Bar Code Scanner

## *A Tough Tool For Your Toughest Jobs*

- **QuadraLogic™ II decoding software for superior scanning performance**
- **Environmentally sealed, with the best IP rating of any handheld scanner**
- **Multi-interface modules provide ultimate flexible connectivity**

### **Ideal For...**

- **Warehousing and Outdoor Use**
- **Transportation and Logistics**
- **Package Distribution**
- **Electronic Assembly**
- **Heavy-Duty Manufacturing**

### **PowerScan: Setting a New Standard**

The PowerScan family of handheld laser bar code scanners has been specifically designed "from the ground up" to meet the demands of industrial users. In this tough environment, the right tool makes all the difference. With a PSC PowerScan scanner on the job, you'll have one of the toughest, most reliable tools around.

You can rely on the PowerScan scanner for fast, accurate bar code reading, from up close to over 60" (152cm) away. Even labels previously thought to be unreadable can now be read using PSC's new superior decoding software, QuadraLogic™ II. The scanner will auto-discriminate all standard bar code symbologies and automatically adjusts to read a wide range of code densities.

### **Dependable In The Harshes Conditions**

Even in the most harsh working environments, you can depend on the PowerScan scanner to keep on working. Designed to meet the most stringent drop specification in the industry, the scanner will withstand

multiple 6.5' (2 m) drops to concrete. Even dust and moisture won't phase it. In fact, the PowerScan scanner has a rating of IP54, which means it meets or exceeds the sealing rating of every portable host terminal on the market. And don't worry about weather conditions – the PowerScan scanner operates over a wide temperature range, from below freezing to over 122°F (50°C).

### **Built Rugged To Stand Up To Abuse**

Handheld scanners often are dropped and abused, so this scanner has been designed with high impact-resistant material and incorporates protective rubber cushioning at every point of impact. The frictionless scan mechanism, with a limited life-time warranty, and all internal optical components, are shock mounted to maintain precise alignment under high shock loads. The scan window is made of shatter-proof material and is diamond coated to resist scratching. Even the replaceable interface cable is protected with an integrated metal strain relief.



*Some of the mounting accessories available for the PowerScan products.*



### **Innovative Host Connectivity**

The PowerScan scanner has a broad range of communication options using unique multi-interface modules, which allow for connection to most host computer systems. Our AutoSelect™ feature allows you to quickly move between different hosts and applications by simply changing cables. In addition PowerScan's low current draw, combined with its low power mode, make it ideal for use with battery operated terminals.

### **Additional Features**

- *Positive trigger feedback for gloved hand operation*
- *Integrated metal tether hook*
- *Programmable scan angle, beeper tone and volume*
- *Field upgradable Flash Memory*
- *A variety of flexible mounting and storage accessories available*



*Expanding Technology. Focusing Solutions.*

# PowerScan™ Industrial Bar Code Scanner

## SPECIFICATIONS

### MECHANICAL

**Dimensions** 2.7 x 4.4 x 7.2"  
(6.9 x 11.2 x 18.3 cm)

#### Weight

- **Scanner** 9.9 ozs. (280 g)
- **Cable (32"/82,3 cm)** 6.2 ozs. (176 g)

**Cable length options** Collapsed: 32" (81 cm),  
Max. Working: 72" (183 cm);  
Collapsed: 80" (203 cm)  
Max. Working: 120" (305 cm)

(For other cable options, contact your PSC sales representative.)

### OPTICAL

**Light source** Extra Bright  
650nm Visible Laser Diode (VLD)

**Scan system** Frictionless lifetime  
flexure mechanism

**Rate** 37 scans/sec. nominal

#### Depth of field

(printing resolution, contrast and ambient light dependent)

#### Paper Labels (decoded)

7.5 mil	3.0 to 6.0"	(9.0 to 15.0 cm)
10 mil	1.5 to 15.0"	(4.0 to 38.0 cm)
15 mil	1.0 to 25.0"	(2.5 to 64.0 cm)
20 mil	1.0 to 35.0"	(2.5 to 89.0 cm)
(paper) 55 mil	6.0 to 60.0"	(15.0 to 152.0 cm)

#### High Density (decoded)

3 mil	1.0 to 2.0"	(2.5 to 5.1 cm)
4 mil	1.0 to 3.0"	(2.5 to 8.0 cm)
5 mil	0.8 to 3.8"	(2.0 to 10.0 cm)
7.5 mil	0.6 to 4.5"	(1.5 to 11.0 cm)
10 mil	0.2 to 5.5"	(0.5 to 14.0 cm)

**Print contrast ratio** 25% minimum

**Pitch** ±65°

**Skew** ±55°

#### Ambient light immunity

Artificial light: 1,200 foot candles  
Sunlight: 8,000 foot candles

### ELECTRICAL

**Operating voltage** 4 VDC to 14 VDC

#### Operating current - nominal

Undecoded: 75mA @ 5 VDC  
Decoded: 100mA @ 5 VDC

#### Idling current - low power mode

<50µA @ 5 VDC

### ENVIRONMENTAL

#### Temperature rating

- **Operating** -22° to 122° F (-30° to 50° C)
- **Storage** -40° to 158° F (-40° to 70° C)

**Humidity** 5 to 95% NC

**Shock** (at 23°C) withstands multiple  
6.5 foot (2 m) drops to concrete.

**Vibration** meets MIL-STD-810E

**Water & Dust** IEC529 rating IP54DW

### DECODING CAPABILITY

(autodiscriminates between)

- **UPC A, E / EAN 8, 13 / JAN 8, 13**  
(P2 / P5, Code 128 EAN add-ons)
- **Code 128** • **MSI / Plessey**
- **Code 39** • **Interleaved 2 of 5**
- **Code 39 Full ASCII** • **Standard 2 of 5**
- **Code 93** • **Codabar**
- **Pharmacode 39**
- **BC412** (available upon request)

### COMMUNICATIONS

#### Undecoded

- **Standard and Intermec-compatible**

#### Multi-interface modules (interchangeable)

- **RS232C / Standard Keyboard Wedge / Wand Emulation**
- **Universal Keyboard Wedge / RS232\***
- **RS232C / IBM 46XX**

(AutoSelect™ cable determines active interface)

\*This RS232 interface only supports RXD and TXD, no control signals are available.

### SAFETY / REGULATORY

**Electrical** Complies to: Gost R;  
TUV; UL; cUL

**Emissions** Complies to: FCC-A; EN 55022-B  
BCIQ CNS13438;  
AS/NZS 3548; VCCI-B

**Laser classification** CDRH Class II;  
(CAUTION: Laser Radiation –  
do not stare into beam);  
IEC 60825 Class 2



Specifications are subject to change without notice.  
For further information, contact your PSC representative.

#### Corporate Headquarters

PSC Inc.  
675 Basket Road  
Webster NY 14580-9787 USA  
Tel: 1 716 265 1600 or 800 828 6489  
Fax: 1 716 265 6400

#### PSC Worldwide Sales and Service locations:

Australia - NSW  
Tel: 61 2 9878 8999  
Fax: 61 2 9878 8688

Australia  
Tel: 61 3 9281 3288  
Fax: 61 3 9243 5510

Belgium  
Tel: 32 2 414 74 09  
Fax: 32 2 410 11 63

Brazil  
Tel: 55 11 5507 7721  
Fax: 55 11 5507 7696

Chile  
Tel: 562-339-7000  
Fax: 562-339-7985

China  
Tel: 86 10 6857 9048  
Fax: 86 10 6857 8699

China - South  
Tel: 86 20 8765 9955  
Fax: 86 20 8765 9955

France  
Tel: 33 1 64 86 71 00  
Fax: 33 1 64 46 72 44

Germany  
Tel: 49 6151 93580  
Fax: 49 6151 935858

Hong Kong  
Tel: 852-25846210  
Fax: 852-25210291

Italy  
Tel: 39 039 629031  
Fax: 39 039 6859496

Japan  
Tel: 81 3 3491 6761  
Fax: 81 3 3491 6656

Latin America  
Tel: 1 305 539-0111  
Fax: 1 305 539-0206

Singapore  
Tel: 65 336 8861  
Fax: 65 336 6933

Spain  
Tel: 34 91 203 65 00  
Fax: 34 91 203 65 01

Sweden  
Tel: 46 4010 84 92  
Fax: 46 4010 84 91

Turkey  
Tel: 90 212 23691 15  
Fax: 90 212 23691 16

United Kingdom  
Tel: 44 1923 809500  
Fax: 44 1923 809505

Part No. R45-2070-US F 1200

For product information, technical support, answers to frequently asked questions, product documentation, software updates, repair information, and how to contact PSC, visit the PSC Website at: [www.pscnet.com](http://www.pscnet.com)



EXPANDING TECHNOLOGY. FOCUSING SOLUTIONS.

PSC is a registered trademark, the PSC logo, PowerScan, QuadraLogic, and AutoSelect are trademarks of PSC Inc. All other brand and product names are trademarks of their respective owners.

Printed in U.S.A.  
12/00 – 5M